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NOTICE OF ALLOWANCE AND FEE(S) DUE

24998

7500

07/28/2008

DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW Washington, DC 20006-5403 EXAMINER

WELLS, NIKITA

ART UNIT PAPER NUMBER

2881

DATE MAILED: 07/28/2008

| APPLICATION NO. FILING DATE FIRST NAMED INVENTOR | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|------------|----------------------|---------------------|------------------|--|
| 10/566,634 | 08/31/2006 | Noriaki Arai | A8319.0081/P081 | 7538 | |

TITLE OF INVENTION: SCANNING ELECTRON MICROSCOPE

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1440 | \$300 | \$0 | \$1740 | 10/28/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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| DICKSTEIN S 1825 EYE STRI Washington, DC | /2008 | | | Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. | | | | | |
| | | | | | | | | (Depositor's | name) |
| | | | | | | | | (Sig | nature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVEN | TOR | | ATTO | RNEY DOCKET NO. | CONFIRMATION N | O. |
| 10/566,634 TITLE OF INVENTION | 08/31/2006 I: SCANNING ELECTR | ON MICROSCOPE | Noriaki Arai | | | A | 8319.0081/P081 | 7538 | |
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| nonprovisional | NO | \$1440 | \$300 | | \$0 | | \$1740 | 10/28/2008 | |
| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | s | | | | | |
| WELLS, | NIKITA | 2881 | 250-310000 | | | | | | |
| "Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un | ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp | " Indication form | data will appear on th | or a attorible be attorible be be attorible be be attorible be attorib | rely, e firm (having as a gent) and the nammers or agents. If printed. e) ttent. If an assignassignment. | memb es of up no nam | er a 2 | ocument has been fil | ed for |
| Please check the appropr 4a. The following fee(s) Issue Fee Publication Fee (N | riate assignee category or are submitted: No small entity discount p | permitted) | inted on the patent): b. Payment of Fee(s): (A check is enclos Payment by credi | Plea ed. | Individual | orporati ny prev is atta | on or other private gro iously paid issue fee s ched. | shown above) | |
| | # of Copies | | The Director is he overpayment, to I | reby Depo | authorized to char sit Account Numbe | ge the i | required fee(s), any de (enclose a | ficiency, or credit any n extra copy of this fo | rm). |
| 5. Change in Entity Sta a. Applicant claim | tus (from status indicated is SMALL ENTITY state | | ☐ b. Applicant is no | long | ger claiming SMAl | LL EN | ΓΙΤΥ status. See 37 CI | FR 1.27(g)(2). | |
| NOTE: The Issue Fee an interest as shown by the | d Publication Fee (if requeecords of the United Sta | uired) will not be accepte tes Patent and Trademark | d from anyone other the Office. | nan tl | ne applicant; a regi | stered a | nttorney or agent; or th | e assignee or other pa | ırty in |
| Authorized Signature | | | | | Date | | | | |
| Typed or printed name | | | Registration No. | | | | | | |
| an application. Confiden submitting the complete | tiality is governed by 35 dapplication form to the ions for reducing this but irginia 22313-1450. DO | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR | 1.14. This collection i depending upon the i | s est ndiv | imated to take 12 i idual case. Anv co | ninutes mment | to complete, including on the amount of tire | g gathering, preparin ne vou require to cor | g, and nolete |

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| DICKSTEIN SH | APIRO LLP | WELLS, NIKITA | | |
| 1825 EYE STREE | | ART UNIT | PAPER NUMBER | |
| Washington, DC 20006-5403 | | | 2881 | |
| | | DATE MAILED: 07/28/2008 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 271 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 271 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | |
|---|---|--|-------------------|
| | 10/566,634 | ARAI ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | Nikita Wells | 2881 | |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31 | S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is I3 and MPEP 1308. | n this application. If not included unication will be mailed in due co | urse. THIS |
| 1. A This communication is responsive to Application filed Aug | <u>gust 31, 2006</u> . | | |
| 2. ⊠ The allowed claim(s) is/are <u>1-15</u> . | | | |
| 3. Acknowledgment is made of a claim for foreign priority of a) All b) ☐ Some* c) ☐ None of the: 1. All certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority denternational Bureau (PCT Rule 17.2(a)). | ve been received. ve been received in Applicati | on No | n from the |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subjected. | MENT of this application. | | |
| INFORMAL PATENT APPLICATION (PTO-152) which gi | | | TIOL OI |
| 5. \square CORRECTED DRAWINGS (as "replacement sheets") mu | ust be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftspe | rson's Patent Drawing Revie | w (PTO-948) attached | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | _• | | |
| (b) ☐ including changes required by the attached Examine Paper No./Mail Date | | | |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | | | ick) of |
| DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT | | | e the |
| | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) | 5 Notice of I | nformal Patent Application | |
| 2. ☐ Notice of Preferences Cited (FTO-092) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | | Summary (PTO-413), | |
| | Paper No. | /Mail Date | |
| Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>01/31/06</u> | /. ☐ Examiner's | : Amendment/Comment | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | | Statement of Reasons for Allowa | ance |
| | 9. | · | |
| | /Nikita Wells/ Primary Examiner July 22, 2008 | , Art Unit 2881 | |

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-15 are allowed.

2. The following is an examiner's statement of reasons for allowance:

With respect to the independent claim 1, prior art fails to disclose or make obvious, in combination with other recited features of the claim limitations, a scanning electron microscope, comprising: an electrode which is located under an objective lens, and to which a voltage can be applied independently, and a sample stage which is located under said electrode, and to which a voltage can be applied independently, said sample stage being used for mounting a sample thereon, wherein said sample is set up between said electrode and said sample stage such that an arbitrary equipotential surface and the surface of said sample coincide with each other, said arbitrary equipotential surface being formed by a parallel electric potential, said parallel electric potential being generated between said electrode and said sample stage by applying each of said voltages to said electrode and said sample stage.

The key element of the applicant's invention, not disclosed in prior art but present in the independent claim 1, is that the sample is set up between said electrode and said sample stage such that an arbitrary equipotential surface and the surface of said sample coincide with each other, said arbitrary equipotential surface being formed by a parallel electric potential, said parallel electric potential being generated between said electrode and said sample stage by applying each of said voltages to said electrode and said sample stage.

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The dependent claims 2-15 are allowable by virtue of their dependence upon the independent claim 1.

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shojo et al. (2008/0121803 A1) disclose a charged particle beam apparatus for acquiring high-definition observation images using a sample stage located under an objective lens and a focusing electrode. Both Scholtz et al. (6,972,412 B2) and Nagahama et al. (2007/0194232 A1) disclose a substrate inspection apparatus, wherein a primary electron beam irradiates a substrate located on a sample stage, and wherein an electron detection unit detects the secondary electrons, reflected electrons, and back scattered electrons generated from the surface of the substrate.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The central fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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6. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Nikita Wells/ Primary Examiner, Art Unit 2881 July 22, 2008